

Attorney's Docket No.: 09712-333001 / Z-436



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

: Henry A. Hill

Art Unit : 1656

Examiner: Unknown

10/659,103

Filed

September 9, 2003

Title

: MEASUREMENT AND COMPENSATION OF ERRORS IN

INTERFEROMETERS

MAIL STOP AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 09712-333001

Application No. 10/659,103

FEB 0 4 2005

Information Disclosure Statement
by Applicant
(Use several sheets if necessary)

Henry A. Hill

Applicant

Filing Date
September 9, 2003

Group Art Unit

MADEMAR 1.980

U.S. Patent Documents Examiner Desig. Document Publication Filing Date Initial Number ID Date Patentee Class Subclass If Appropriate US 05/15/03 Fujiwara 2003/009067 AA 5 US 07/11/02 Hill 2002/008967 AB 1 US 11/01/01 Hill 2001/003595 AC 12/11/01 Rozelle et al. AD 6,330,105 10/16/01 Matsumoto AE 6,304,318 06/26/01 Hill 6,252,668 AF 06/12/01 Hill 6,246,481 AG 05/22/01 Hill et al. 6,236,507 AΗ 01/30/01 Badami et al. ΑI 6,181,420 12/12/00 Hidetoshi AJ 6,159,644 10/17/00 Naraki et al. ΑK 6,134,007 04/04/00 Van Der Werf et al. AL 6,046,792 03/21/00 Kakizaki AM 6,040,096 02/01/00 Loopstra et al. 6,020,964 AN 12/28/99 Rinn A0 6,008,902 09/01/98 Van Der Brink AP 5,801,832 lwamoto 07/14/98 5,781,277 AQ 05/26/98 Kawakami AR 5,757,489 05/26/98 Kreuzer AS 5,757,160 06/09/98 Kato et al. AT 5,764,361 03/03/98 Zanoni AU 5,724,136 09/02/97 Wampler et al. ΑV 5,663,893 09/02/97 de Groot 5,663,793 AW 02/13/96 Dabbs AX 5,491,550 04/18/95 Slater AY 5,408,318

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09712-333001	Application No. 10/659,103	
by Applicant (Use several sheets if necessary)		Applicant Henry A. Hill		
		Filing Date September 9, 2003	Group Art Unit 1656	
(37 CFR §1.98(b))		3cpicinoci 3, 2003	1000	

	U.S. Patent Documents						
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AZ	5,187,543	02/16/93	Ebert			
	AAA	5,151,749	09/29/92	Tanimoto et al.			
	ABB	5,114,234	05/19/92	Otsuka et al.		<i>**</i>	
	ACC	5,064,289	11/12/91	Bockman			
	ADD	4,881,816	11/21/89	Zanoni			
	AEE	4,859,066	08/22/89	Sommargren			-
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	AJJ	4,606,638	08/19/86	Sommargren			

	Foreig	n Patent Doc	uments or P	ublished Foreign	Patent A	Application	ns	
Examiner	Desig.	Document	Publication	Country or			Trans	lation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No
	AKK	WO 01/90686	11/29/01	WIPO				
	ALL	JP 10- 260009 Translation of Abstract Only	09/29/98	Japan			х	
	AMM	JP 7-351078	12/25/95	Japan				
	ANN	JP 8-117083 Abstract Only	04/15/96	Japan			х	
	A00	JP 9-178415 Translation of Abstract Only	07/11/97	Japan			x	
	APP	JP 9-280822 Translation of Abstract Only	10/31/97	Japan			х	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Signature	Date Considered
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Examiner Initial	Desig. ID	Document
	AQQ	Bennett, S.J "A Double-Passed Michelson Interferometer." Optics Communications, 4:6, pp. 428-430, 1972.
	Wu et al. "Analytical modeling of the periodic nonlinearity in heterodyne interferometry." Applied Optics, 37:28, pp. 6696-6700, 1998.	
	Hines et al. "Sub-Nonometer Laser Metrology – Some Techniques and Models. ESO Conference on High-Resolution Imaging by Interferometry II, pp.1195-1204, 1991	
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	AWW	Bobroff, Norman. "Residual errors in laser interferometry from air turbulence and nonlinearity." Applied Optics, 26:13, pp. 2676-2686, 1987.

Examiner Signature Date Considered

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